

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

July 23th, 2021

SUMMARY

Critical updates

- 4910 genomes sampled between March 10, 2020 and July 7, 2021 are included in the analysis
- 893 B.1.1.7 (alpha) Variant of Concern have been identified
- 4 B.1.351 (beta) Variant of Concern have been identified
- 29 B.1.617.2/AY.1/AY.2 (delta) Variant of Concern have been identified
- 104 P.1/P.1.1 (gamma) Variant of Concern have been identified

Notable Updates

- The delta variant represents 47.6% of all sequenced samples collected in July.

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- County information is missing in this analysis for ~50% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

- <https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>
<https://covariants.org/>
<https://outbreak.info/situation-reports>
<https://nextstrain.org/>
<https://github.com/tewhey-lab/ncov-ME>

Variant	WHO Label	Category	Cumulative Count	April 2021	May 2021	June 2021	July 2021
P.1*	Gamma	VOC	104	5.2%	4.1%	2.3%	0.0%
B.1.351	Beta	VOC	4	0.1%	0.0%	0.0%	0.0%
B.1.1.7	Alpha	VOC	893	35.4%	40.7%	30.0%	9.5%
B.1.617.2**	Delta	VOC	29	0.1%	0.3%	3.8%	47.6%
B.1.427	Epsilon	VOI	9	0.2%	0.0%	0.0%	0.0%
B.1.429	Epsilon	VOI	134	2.2%	1.1%	0.4%	0.0%
B.1.525	Eta	VOI	8	0.1%	0.0%	0.0%	0.0%
B.1.526	Iota	VOI	1173	39.8%	47.5%	48.5%	19.0%
B.1.617.1	Kappa	VOI	0	0.0%	0.0%	0.0%	0.0%
B.1.617.3		VOI	0	0.0%	0.0%	0.0%	0.0%
P.2	Zeta	VOI	104	0.6%	0.0%	0.0%	0.0%
Total VOI/VOC Sequenced			2458	846	841	221	16
Total Cases Sequenced			4910	1010	896	260	21

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month.

P.1* includes P.1 and the subclade P.1.1

B.1.617.2** includes B.1.617.2 and the subclades AY.1, AY.2 and AY.3

Prevalence of VOC and VOI in Maine (monthly)

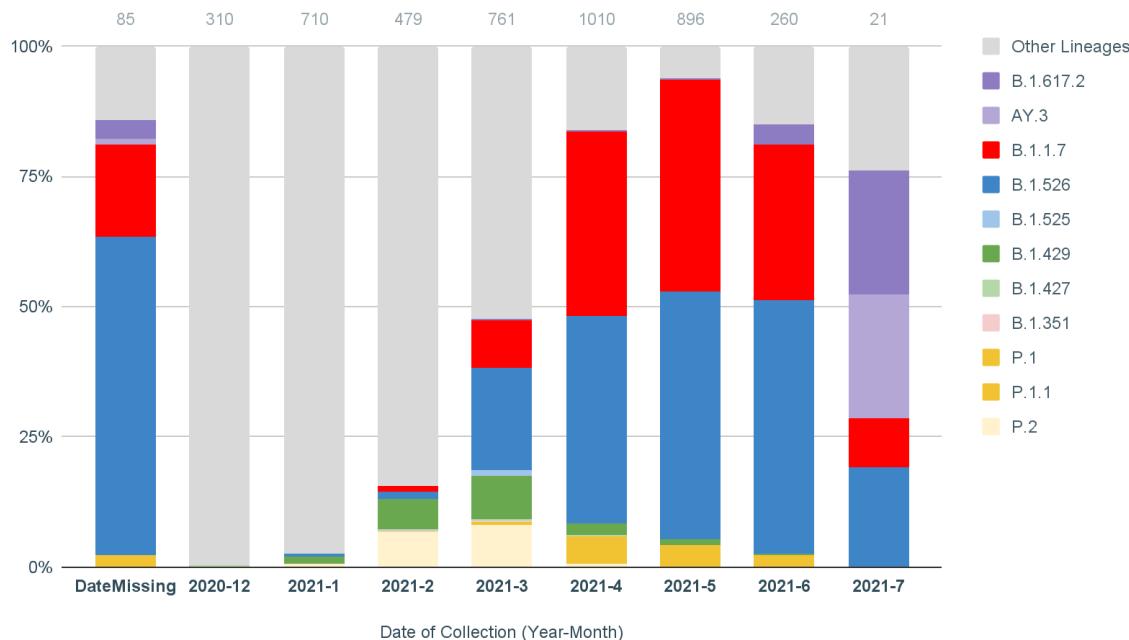


Figure 1: Proportion of samples typed as VOC and VOI by month. Samples represented as “DateMissing” include samples sequenced in the past 60 days without metadata.

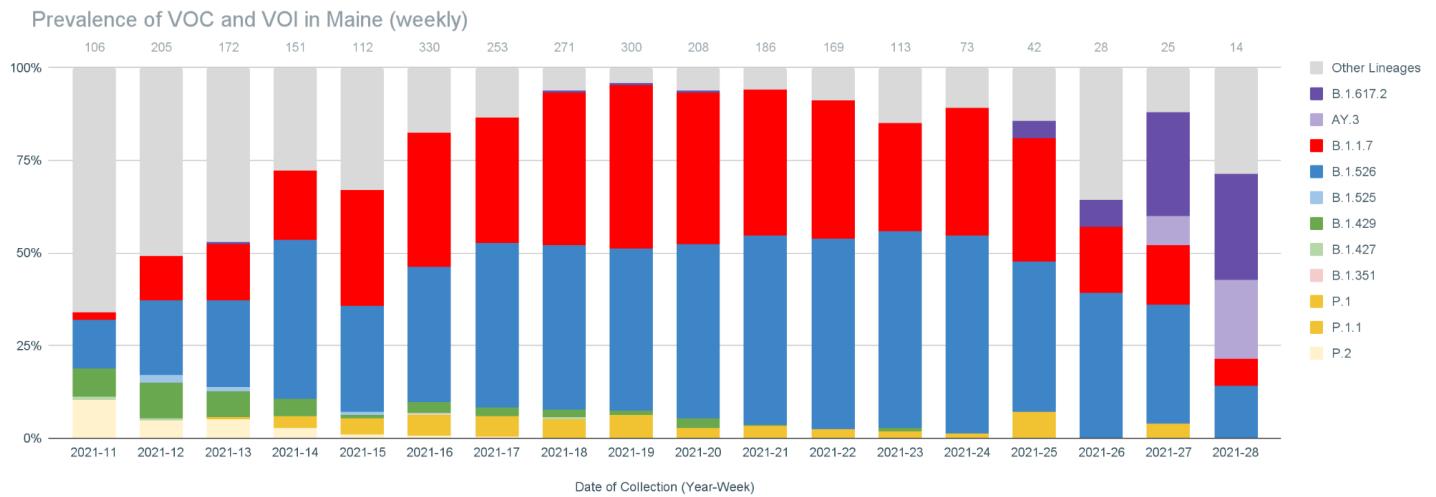


Figure 2: Proportion of samples typed as VOC and VOI by week.

Mutation	Gene	Category	Cumulative Count	March 2021	April 2021	May 2021	June 2021
S:E484K	Spike	Substitution	485	15.3%	13.1%	20.0%	23.8%
S:L452R	Spike	Substitution	609	14.0%	19.0%	25.4%	47.6%

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

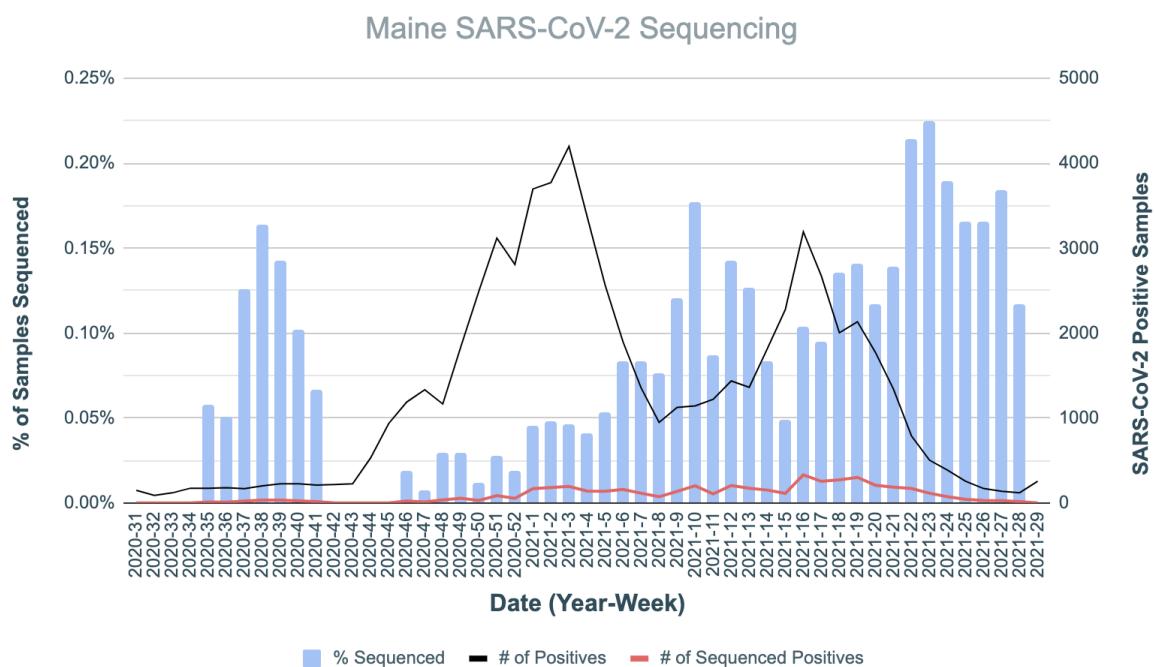


Figure 3: Proportion of COVID-19 positive samples sequenced.

Sample Collection Date	JAX	HETL	CDC	Other
Missing Date	106	0	0	0
Pre-Sept 2020	119	0	0	8
Sept 2020	113	0	0	0
Oct 2020	19	0	0	0
Nov 2020	98	0	0	0
Dec 2020	296	0	12	2
Jan 2021	602	0	88	20
Feb 2021	340	13	115	11
Mar 2021	514	16	212	19
Apr 2021	569	83	341	17
May 2021	529	59	298	10
June 2021	215	0	39	6
July 2021	21	0	0	0

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program.

	Total	06/20/21 -	06/27/21 -	07/04/21 -	07/11/21 -
		06/26/21	07/03/21	07/10/21	07/17/21
Total number of cases sequenced	4910	28	25	14	0
Total positive tests by molecular testing	53559	N/A	N/A	N/A	N/A
Total positive tests	76519	169	136	120	255
Percent of positives sequenced (molecular)	9.17%	-	-	-	-
Percent of positives sequenced (total)	6.42%	16.57%	18.38%	11.67%	0.00%

Table 4: Total proportion of positive tests sequenced.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

Variant	County	Cumulative % (total count)	April 2021	May 2021	June 2021	July 2021
P.1*	ANDROSCOGGIN	1.6% (11)	2.2% (4)	5.3% (7)	0% (0)	0% (0)
P.1*	AROOSTOOK	7.7% (13)	12.5% (3)	25.0% (10)	0% (0)	0% (0)
P.1*	CUMBERLAND	2.3% (19)	7.0% (12)	3.8% (4)	10.0% (2)	0% (0)
P.1*	FRANKLIN	1.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	KENNEBEC	1.6% (5)	6.1% (3)	2.5% (2)	0% (0)	0% (0)
P.1*	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	OXFORD	1.8% (4)	5.7% (3)	0% (0)	0% (0)	0% (0)
P.1*	PENOBCOT	2.7% (13)	13.0% (6)	6.0% (7)	0% (0)	0% (0)
P.1*	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	WALDO	3.0% (2)	0% (0)	0% (0)	33.3% (2)	0% (0)
P.1*	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	YORK	2.5% (12)	7.1% (7)	3.1% (3)	4.7% (2)	0% (0)
P.1*	Total (w/ county information)	2.0% (80)	5.0% (38)	4.3% (33)	2.6% (6)	0% (0)
P.1*	Total	2.1% (104)	5.2% (53)	4.1% (37)	2.3% (6)	0% (0)
B.1.351	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	CUMBERLAND	0.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	LINCOLN	3.0% (2)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	Total (w/ county information)	0.1% (3)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	Total	0.1% (4)	0.1% (1)	0% (0)	0% (0)	0% (0)
B.1.1.7	ANDROSCOGGIN	19.4% (135)	43.8% (81)	34.1% (45)	30.8% (4)	0% (0)
B.1.1.7	AROOSTOOK	10.7% (18)	25.0% (6)	22.5% (9)	27.3% (3)	0% (0)
B.1.1.7	CUMBERLAND	17.8% (148)	48.8% (84)	45.2% (47)	25.0% (5)	0% (0)
B.1.1.7	FRANKLIN	18.9% (18)	75.0% (6)	20.0% (3)	62.5% (5)	100.0% (1)
B.1.1.7	HANCOCK	15.3% (13)	26.7% (4)	46.7% (7)	50.0% (1)	0% (0)
B.1.1.7	KENNEBEC	13.8% (44)	12.2% (6)	33.3% (27)	40.9% (9)	0% (0)
B.1.1.7	KNOX	17.6% (12)	33.3% (1)	57.1% (8)	75.0% (3)	0% (0)
B.1.1.7	LINCOLN	58.2% (39)	84.0% (21)	77.3% (17)	33.3% (1)	0% (0)
B.1.1.7	OXFORD	19.1% (42)	20.8% (11)	50.0% (16)	53.8% (7)	50.0% (1)
B.1.1.7	PENOBCOT	16.4% (80)	26.1% (12)	45.3% (53)	26.5% (13)	0% (0)
B.1.1.7	SAGADAHOC	24.1% (14)	25.0% (3)	52.9% (9)	50.0% (1)	0% (0)
B.1.1.7	SOMERSET/PISCATAQUIS	17.2% (41)	26.9% (14)	37.3% (22)	12.5% (3)	0% (0)
B.1.1.7	WALDO	15.2% (10)	33.3% (1)	43.8% (7)	33.3% (2)	0% (0)
B.1.1.7	WASHINGTON	10.6% (7)	0% (0)	44.4% (4)	25.0% (2)	0% (0)
B.1.1.7	YORK	20.9% (102)	35.4% (35)	40.2% (39)	25.6% (11)	0% (0)
B.1.1.7	Total (w/ county information)	18.3% (723)	37.8% (285)	40.6% (313)	30.7% (70)	9.5% (2)
B.1.1.7	Total	18.2% (893)	35.4% (358)	40.7% (365)	30.0% (78)	9.5% (2)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	April 2021	May 2021	June 2021	July 2021
B.1.427	ANDROSCOGGIN	0.1% (1)	0.5% (1)	0% (0)	0% (0)	0% (0)
B.1.427	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	CUMBERLAND	0.5% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	HANCOCK	1.2% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	YORK	0.4% (2)	1.0% (1)	0% (0)	0% (0)	0% (0)
B.1.427	Total (w/ county information)	0.2% (8)	0.3% (2)	0% (0)	0% (0)	0% (0)
B.1.427	Total	0.2% (9)	0.2% (2)	0% (0)	0% (0)	0% (0)
B.1.429	ANDROSCOGGIN	1.4% (10)	0% (0)	1.5% (2)	0% (0)	0% (0)
B.1.429	AROOSTOOK	6.5% (11)	20.8% (5)	15.0% (6)	0% (0)	0% (0)
B.1.429	CUMBERLAND	4.3% (36)	2.3% (4)	1.9% (2)	0% (0)	0% (0)
B.1.429	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KENNEBEC	1.9% (6)	2.0% (1)	0% (0)	0% (0)	0% (0)
B.1.429	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	OXFORD	1.8% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	PENOBCOT	3.7% (18)	4.3% (2)	0% (0)	0% (0)	0% (0)
B.1.429	SAGADAHOC	3.4% (2)	0% (0)	0% (0)	50.0% (1)	0% (0)
B.1.429	SOMERSET/PISCATAQUIS	0.4% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	WALDO	1.5% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	WASHINGTON	1.5% (1)	14.3% (1)	0% (0)	0% (0)	0% (0)
B.1.429	YORK	2.5% (12)	5.1% (5)	0% (0)	0% (0)	0% (0)
B.1.429	Total (w/ county information)	2.6% (102)	2.4% (18)	1.3% (10)	0.4% (1)	0% (0)
B.1.429	Total	2.7% (134)	2.2% (22)	1.1% (10)	0.4% (1)	0% (0)
B.1.525	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	FRANKLIN	3.2% (3)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	OXFORD	1.8% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	YORK	0.2% (1)	1.0% (1)	0% (0)	0% (0)	0% (0)
B.1.525	Total (w/ county information)	0.2% (8)	0.1% (1)	0% (0)	0% (0)	0% (0)
B.1.525	Total	0.2% (8)	0.1% (1)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	April 2021	May 2021	June 2021	July 2021
B.1.526	ANDROSCOGGIN	26.3% (183)	44.3% (82)	56.8% (75)	46.2% (6)	0% (0)
B.1.526	AROOSTOOK	4.8% (8)	20.8% (5)	2.5% (1)	18.2% (2)	0% (0)
B.1.526	CUMBERLAND	17.5% (145)	28.5% (49)	47.1% (49)	45.0% (9)	25.0% (1)
B.1.526	FRANKLIN	20.0% (19)	25.0% (2)	80.0% (12)	37.5% (3)	0% (0)
B.1.526	HANCOCK	18.8% (16)	53.3% (8)	46.7% (7)	50.0% (1)	0% (0)
B.1.526	KENNEBEC	33.0% (105)	69.4% (34)	56.8% (46)	54.5% (12)	66.7% (2)
B.1.526	KNOX	32.4% (22)	33.3% (1)	42.9% (6)	25.0% (1)	0% (0)
B.1.526	LINCOLN	14.9% (10)	16.0% (4)	22.7% (5)	33.3% (1)	0% (0)
B.1.526	OXFORD	30.9% (68)	58.5% (31)	46.9% (15)	46.2% (6)	50.0% (1)
B.1.526	PENOBCOT	21.1% (103)	37.0% (17)	45.3% (53)	65.3% (32)	0% (0)
B.1.526	SAGADAHOC	32.8% (19)	75.0% (9)	47.1% (8)	0% (0)	0% (0)
B.1.526	SOMERSET/PISCATAQUIS	31.1% (74)	44.2% (23)	55.9% (33)	66.7% (16)	0% (0)
B.1.526	WALDO	21.2% (14)	33.3% (1)	50.0% (8)	33.3% (2)	0% (0)
B.1.526	WASHINGTON	28.8% (19)	42.9% (3)	44.4% (4)	75.0% (6)	0% (0)
B.1.526	YORK	24.7% (121)	29.3% (29)	46.4% (45)	27.9% (12)	0% (0)
B.1.526	Total (w/ county information)	23.4% (926)	39.6% (298)	47.7% (367)	47.8% (109)	19.0% (4)
B.1.526	Total	23.9% (1173)	39.8% (402)	47.5% (426)	48.5% (126)	19.0% (4)
B.1.526.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	April 2021	May 2021	June 2021	July 2021
B.1.617.2	ANDROSCOGGIN	0.4% (3)	0% (0)	0% (0)	23.1% (3)	0% (0)
B.1.617.2	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	CUMBERLAND	0.5% (4)	0% (0)	0% (0)	15.0% (3)	25.0% (1)
B.1.617.2	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	OXFORD	0.9% (2)	1.9% (1)	3.1% (1)	0% (0)	0% (0)
B.1.617.2	PENOBCOT	0.2% (1)	0% (0)	0% (0)	2.0% (1)	0% (0)
B.1.617.2	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WALDO	1.5% (1)	0% (0)	0% (0)	0% (0)	100.0% (1)
B.1.617.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	YORK	1.4% (7)	0% (0)	2.1% (2)	4.7% (2)	60.0% (3)
B.1.617.2	Total (w/ county information)	0.5% (18)	0.1% (1)	0.4% (3)	3.9% (9)	23.8% (5)
B.1.617.2	Total	0.5% (23)	0.1% (1)	0.3% (3)	3.8% (10)	23.8% (5)
AY.3	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	KNOX	7.4% (5)	0% (0)	0% (0)	0% (0)	100.0% (5)
AY.3	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3	Total (w/ county information)	0.1% (5)	0% (0)	0% (0)	0% (0)	23.8% (5)
AY.3	Total	0.1% (6)	0% (0)	0% (0)	0% (0)	23.8% (5)
P.2	ANDROSCOGGIN	0.6% (4)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	AROOSTOOK	3.0% (5)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	CUMBERLAND	0.6% (5)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	FRANKLIN	1.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	HANCOCK	17.6% (15)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	KENNEBEC	0.6% (2)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	LINCOLN	6.0% (4)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	PENOBCOT	3.1% (15)	4.3% (2)	0% (0)	0% (0)	0% (0)
P.2	SAGADAHOC	3.4% (2)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	SOMERSET/PISCATAQUIS	11.3% (27)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	WALDO	3.0% (2)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	Total (w/ county information)	2.1% (82)	0.3% (2)	0% (0)	0% (0)	0% (0)
P.2	Total	2.1% (104)	0.6% (6)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	April 2021	May 2021	June 2021	July 2021
	ANDROSCOGGIN	49.8% (347)	90.8% (168)	97.7% (129)	100.0% (13)	0% (0)
	AROOSTOOK	32.7% (55)	79.2% (19)	65.0% (26)	45.5% (5)	0% (0)
	CUMBERLAND	43.6% (362)	86.6% (149)	98.1% (102)	95.0% (19)	50.0% (2)
	FRANKLIN	44.2% (42)	100.0% (8)	100.0% (15)	100.0% (8)	100.0% (1)
	HANCOCK	52.9% (45)	80.0% (12)	93.3% (14)	100.0% (2)	0% (0)
	KENNEBEC	50.9% (162)	89.8% (44)	92.6% (75)	95.5% (21)	66.7% (2)
	KNOX	57.4% (39)	66.7% (2)	100.0% (14)	100.0% (4)	100.0% (5)
	LINCOLN	82.1% (55)	100.0% (25)	100.0% (22)	66.7% (2)	0% (0)
	OXFORD	56.4% (124)	86.8% (46)	100.0% (32)	100.0% (13)	100.0% (2)
	PENOBCOT	47.0% (229)	84.8% (39)	95.7% (112)	93.9% (46)	0% (0)
	SAGADAHOC	63.8% (37)	100.0% (12)	100.0% (17)	100.0% (2)	0% (0)
	SOMERSET/PISCATAQUIS	60.1% (143)	71.2% (37)	93.2% (55)	79.2% (19)	0% (0)
	WALDO	45.5% (30)	66.7% (2)	93.8% (15)	100.0% (6)	100.0% (1)
	WASHINGTON	40.9% (27)	57.1% (4)	88.9% (8)	100.0% (8)	0% (0)
	YORK	52.4% (256)	78.8% (78)	90.7% (88)	62.8% (27)	60.0% (3)
Total VOI/VOC Sequenced	Total (w/ county information)	49.4% (1953)	85.7% (645)	94.0% (724)	85.5% (195)	76.2% (16)
Total VOI/VOC Sequenced	Total	50.0% (2456)	83.8% (846)	93.6% (839)	85.0% (221)	76.2% (16)
	ANDROSCOGGIN	697	185	132	13	0
	AROOSTOOK	168	24	40	11	0
	CUMBERLAND	830	172	104	20	4
	FRANKLIN	95	8	15	8	1
	HANCOCK	85	15	15	2	0
	KENNEBEC	318	49	81	22	3
	KNOX	68	3	14	4	5
	LINCOLN	67	25	22	3	0
	OXFORD	220	53	32	13	2
	PENOBCOT	487	46	117	49	0
	SAGADAHOC	58	12	17	2	0
	SOMERSET/PISCATAQUIS	238	52	59	24	0
	WALDO	66	3	16	6	1
	WASHINGTON	66	7	9	8	0
	YORK	489	99	97	43	5
Total Cases Sequenced	Total (w/ county information)	3952	753	770	228	21
Total Cases Sequenced	Total	4910	1010	896	260	21